

"THE CELL CYCLE"

Airlie Conference Center, Airlie, Virginia, U.S.A.

March 24 - 28, 1990

Sponsored by the American Society for Cell Biology and the European Molecular Biology Organization

ORGANIZERS: *Tim Hunt*, University of Cambridge, England
Eric Karsenti, EMBL, Heidelberg, FRG
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This ASCB/EMBO meeting on cell cycle regulation comes at a time when a general understanding of the cell cycle in all eukaryotic cells has begun to emerge. Through both genetic and biochemical experiments in a variety of organisms, a common set of reactions has been identified, which regulate the major cell cycle transitions. In this meeting we focus on the nature of these reactions, their integration into developmental and signalling events, and their control of important cellular processes. Although attendance is limited to 150, we hope to accommodate both beginning and senior scientists with a broad range of interests.

Proposed titles and speakers are:

cdc2 as the catalytic subunit of a family of protein kinases. *David Beach*, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York
The role of protein phosphorylation in the resumption of meiotic cell division in *Xenopus oocytes*. *Michael Cicirelli*, Howard

Hughes Medical Institute, University of Washington, Seattle, Washington

Serine/Threonine-specific protein phosphatases; key enzymes involved in controlling the cell cycle and other biological processes.

Phillip Cohen, Medical Sciences Institute, University of Dundee, Scotland

Cell size control and START control in *S. cerevisiae*. *Fred Cross*, Rockefeller University, New York, New York

MPF: subunit structure and possible mechanism of its periodic activation. *Marcel Doree*, Centre National de la Recherche Scientifique, Montpellier Cedex, France

Maternal genes and the control of the cell cycle in *Drosophila*. *David Glover*, Imperial College, London, England

Regulation of the cell cycle by mating factors, and cell-cycle-dependent gene expression. *Ira Herskowitz*, University of California, San Francisco, California

Frog cyclins: how many are there and what do they do? *Tim Hunt*, University of Cambridge, England

The involvement of cyclins A and B in the human cell cycle. *Tony Hunter* and *Jonathan Pines*, The Salk Institute, San Diego, California

Regulation of microtubule dynamics during mitosis. *Eric Karsenti*, EMBL, Heidelberg, Federal Republic of Germany

Eukaryotic DNA replication: recent insights from the SV40 model system. *Tom Kelly*, Johns Hopkins University School of Medicine, Baltimore, Maryland

Yeast spindle pole body components. *John Kilmartin*, MRC Laboratory of Molecular Biology, Cambridge, England

Cyclin and MPF activation and inactivation. *Marc Kirschner*, University of California School of Medicine, San Francisco, California

MPF and regulation of the cell cycle. *James Maller*, University of Colorado School of Medicine, Denver, Colorado

Constitution, activation and role of the M-phase-specific histone H1 kinase. *Laurent Meijer*, Centre National de la Recherche Scientifique, Roscoff, France

Genes that affect mitosis in *Aspergillus*. *Ron Morris*, UMDNJ-Robert Wood Johnson Medical School, Piscataway, New Jersey

CSF and the role of cyclin proteolysis. *Andrew Murray*, University of California, San Francisco, California

A view of the beginning and the end of the cell cycle in yeast from the perspective of *HO* regulation. *Kim Nasmyth*, Boehringer Institute, Vienna, Austria

A link between DNA replication and initiation of mitosis. *John Newport*, University of California at San Diego, La Jolla, California

Cell cycle control in fission yeast. *Paul Nurse*, University of Oxford, England

The spatio-temporal control of cell division in *Drosophila* embryos. *Patrick O'Farrell*, University of California Medical Center, San Francisco, California

Transmembrane-signalling pathways initiating cell cycle entry in fibroblasts. *Jacques Pouyssegur*, Universite de Nice, France

Mitosis-specific monoclonal antibody MPM-2 recognizes an M-phase-specific histone H1 kinase that is not *cdc2* kinase. *Portu Rao*, University of Texas, MD Anderson Cancer Center, Houston, Texas

Control of G₁ and G₂ in yeast. *Steve Reed*, Research Institute of Scripps Clinic, La Jolla, California

Cell cycle control of DNA replication. *Jim Roberts*, Hutchinson Cancer Research Foundation, Seattle, Washington

Cyclins, meiosis and mitosis. *Joan Ruderman*, Harvard University, Boston, Massachusetts

Roles of *cdc25* and *wee1* in mitotic control. *Paul Russell*, Research Institute of Scripps Clinic, San Diego, California

Protein phosphorylation and microtubule stability in the mitotic apparatus. *Roger Sloboda*, Dartmouth College, Hanover, New Hampshire

Cell cycle regulation of DNA replication: studies *in vitro* with yeast and human cells. *Bruce Stillman*, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York

Delay of mitosis by incompletely replicated or damaged chromosomes in *S. cerevisiae*. *Ted Weinert*, University of Washington, Seattle, Washington

RAS proteins and signal transduction. *Michael Wigler*, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York

Role of *dis* and related genes for dephosphorylation in mitosis. *Mitsuhiro Yanagida*, Kyoto University, Sakyo-ku, Japan

Cell growth and cell cycle progression. *Andrew Zetterberg*, Karolinska Hospital, Stockholm, Sweden

Additional information may be obtained from: ASCB/EMBO Meeting Office, 9650 Rockville Pike, Bethesda, MD 20814, (301) 530-7153, FAX: (301) 530-7139

DEADLINE FOR RECEIPT OF APPLICATIONS IS JANUARY 15, 1990

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